# LIST OF MAP UNITS

[See Description of Map Units (in pamphlet) for complete unit descriptions]

## SACRAMENTO VALLEY–CASCADE RANGE PROVINCE

### Sedimentary rocks

t — **Dredge tailings (Holocene)**

Qsc — **Stream channel deposits (Holocene)**

Qa — **Alluvium (Holocene)**

Qo — **Overbank deposits (Holocene)**

Qao — **Alluvial and overbank deposits, undivided (Holocene)**

Qb — **Basin deposits (Holocene)**

**Modesto Formation (Pleistocene)**—Divided into:

Qmu — **Upper member**

Qml — **Lower member**

**Riverbank Formation (Pleistocene)**—Divided into:

Qru — **Upper member**

Qrl — **Lower member**

Qrb — **Red Bluff Formation (Pleistocene)**

Qog — **Older gravel deposits (Pleistocene and (or) Pliocene)**

Tte — **Tehama Formation (Pliocene)**—Locally includes:

Tten — **Nomlaki Tuff Member**

Tc — **Channel deposits (Pliocene and (or) Miocene)**

Kc — **Chico Formation (Late Cretaceous)**

### Volcanic rocks

**Basaltic rocks of Inskip Hill volcanic center (Holocene)**—Divided into:

Qip — **Basalt flow of Paynes Creek**

Qiu — **Basalt flows of Inskip Hill and Soap Butte, undivided**

**Basaltic rocks of Black Butte volcanic center (Holocene)**—Divided into:

Qbc — **Cinder deposits**

Qbb — **Basalt flow of Black Butte**

Qtbb — **Basalt near Tuscan Buttes (Holocene and (or) Pleistocene)**

Qab — **Hypersthene andesite of Brokeoff Mountain (Pleistocene)**

Qr — **Rockland ash bed of Sarna-Wojcicki and others (1982) (Pleistocene)**

**Basalt flows of Shingletown Ridge (Pleistocene)**—Divided into:

$Qsf_3$ — **Flow 3**

$Qsf_2$ — **Flow 2**

$Qsf_1$ — **Flow 1**

Qeb — **Olivine basalt of Eagle Canyon (Pleistocene)**

Qbd — **Olivine basalt of Devils Half Acre (Pleistocene)**

Qcb — **Basalt of Coleman Forebay (Pleistocene)**

QTa — **Andesite (Pleistocene and (or) Pliocene)**

**Tuscan Formation (Pliocene)**—Divided into:

Ttu — **Undivided part**

Ttd — **Member D**

Tth — **Tuff member of Hogback Road**

Ttc — **Member C**

Tti — **Ishi Tufff Member**

Ttb — **Member B**

Tta — **Member A**

Ttn — **Nomlaki Tuff Member**

Taa — **Basaltic andesite of Antelope Creek (Pliocene)**

## SACRAMENTO VALLEY–WESTERN FOOTHILLS PROVINCE

**Overlap assemblage (Late and Early Cretaceous)**—Divided into:

Koms — **Mudstone**

Koss — **Sandstone and conglomerate**

**Elder Creek terrane**—Divided into:

ecms — **Mudstone (Early Cretaceous and Late Jurassic)**

ecss — **Sandstone and conglomerate (Early Cretaceous and Late Jurassic)**

**Coast Range ophiolite (Late and Middle Jurassic)**—Divided into:

ecg — **Layered gabbro**

ecu — **Layered ultramafic rocks**

gb–ecsp — **Round Mountain serpentinite melange and blocks of gabbro**

## COAST RANGES PROVINCE

Qls — **Landslide deposits (Holocene and Pleistocene)**

Qg — **Glacial deposits (Pleistocene)**

**Pickett Peak terrane**—Divided into:

mb–ppsm — **South Fork Mountain Schist and large bodies of metabasalt (Early Cretaceous, metamorphic age; protolith age unknown)**

mv–ppv — **Valentine Spring Formation of Worrall (1981, 1982) and minor amounts of meta-volcanic rock (Early Cretaceous, metamorphic age; protolith age unknown)**

**Yolla Bolly terrane**—Divided into:

ybt — **Taliaferro Metamorphic Complex of Suppe (1972) (Early Cretaceous to Middle Jurassic?)**

ch–ybc–gs — **Chicago Rock melange, blocks of greenstone, and lenses of chert (Early Cretaceous to Middle Jurassic)**

ch–ybh–sp — **Metagraywacke of Hammerhorn Ridge, lenses of chert, and scarce serpentinite (Early Cretaceous to Middle Jurassic)**

ch–ybd — **Broken formation of Devils Hole Ridge and blocks and lenses of chert (Early Cretaceous to Middle Jurassic)**

## KLAMATH MOUNTAINS PROVINCE

Qls — **Landslide deposits (Holocene and Pleistocene)**

Qog — **Older gravel deposits (Pleistocene and (or) Pliocene)**

Ko — **Overlap assemblage (Early Cretaceous)**

Ksb — **Shasta Bally batholith (Early Cretaceous)**

**Western Klamath terrane**—Consists of:

**Smith River subterrane**—Divided into:

srs — **Metasedimentary rocks (Late Jurassic?)**

srv — **Metavolcanic rocks (Late Jurassic?)**

**Hayfork terrane**—Consists of:

**Western Hayfork subterrane of Wright (1982) (Middle Jurassic)**—Divided into:

$wh_1$ — **Unit 1**

$wh_2$ — **Unit 2**

$wh_3$ — **Unit 3**

$wh_4$ — **Unit 4**

whu — **Undivided part**

**Plutonic rocks**—Divided into:

whpb — **Basin Gulch pluton (Middle Jurassic)**

cpx–whpw — **Walker Point and Wildwood plutons, undivided, and core of clinopyroxenite (Middle Jurassic)**

whpo — **Oliphant Creek pluton (Jurassic?)**

whpg — **Granite (Jurassic?)**

ls–eh–sp — **Eastern Hayfork subterrane of Wright (1981, 1982) and blocks of limestone and serpentinite (Middle? Jurassic)**

**Rattlesnake Creek terrane**—Divided into:

ls–rcm — **Melange and blocks of limestone (Jurassic and older)**

rcds — **Dike and sill complex (Early Jurassic and (or) Late Triassic)**

rcp — **Plutonic rocks (Early Jurassic and (or) Late Triassic)**

rcum — **Ultramafic rocks (age unknown)**

**North Fork terrane**—Divided into:

ls–nfs — **Volcanic and sedimentary rocks and blocks of limestone (Jurassic to Permian)**

nfum — **Ultramafic rocks (Permian)**

cm — **Central metamorphic terrane (Devonian, metamorphic age)**

**Eastern Klamath terrane**—Consists of:

**Redding subterrane**—Divided into:

ekrb — **Bragdon Formation (Mississippian)**

ekrc — **Copley Greenstone (Devonian)**

ekt — **Trinity subterrane (Ordovician)**

**Contact**—Dashed where approximately located; dotted where concealed; queried where uncertain

**Steeply dipping fault**—Dashed where approximately located; dotted where concealed; queried where uncertain. Arrows indicate direction of relative movement

**Thrust fault**—Dashed where approximately located; dotted where concealed; queried where uncertain. Sawteeth on upper plate

**Attenuation fault**—Hachures on downthrown block

**Fold axes**—Showing direction of plunge where known

**Anticline**

**Antiform**

**Dome**

**Syncline**

**Basin**

**Monocline**

Aptian / Albian — **Approximate location of stage boundary**

**Strike and dip of bedding**

21 — **Inclined**

82 — **Inclined, top known**—Shown in Klamath Mountains and Coast Ranges provinces only

**Vertical**

42 — **Overturned**

**Strike and dip of foliation**

70 — **Inclined**

**Vertical**

**Strike and dip of foliation parallel to bedding**

66 — **Inclined**

**Strike and dip of semiplanar structure in melange**—Shown in Klamath Mountains province only

79 — **Inclined**

**Landslide arrow**—Shows direction of movement of landslide